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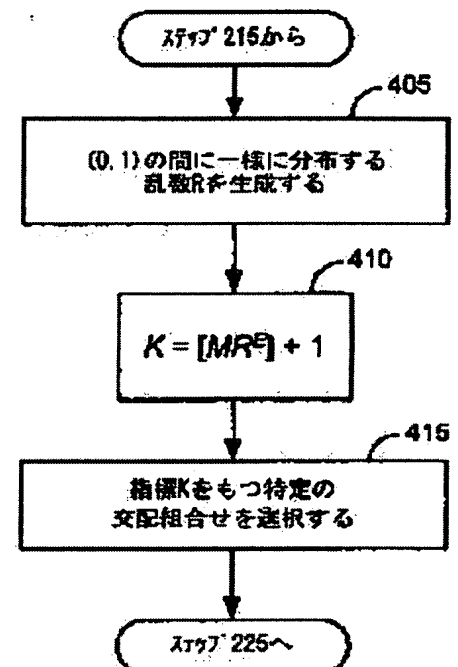
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(54) METHOD AND SYSTEM FOR REPRODUCTION IN GENETIC OPTIMIZATION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a reproduction method and system which supports rapid convergence of a genetic optimization process.

SOLUTION: In the method for reproduction in the optimization process based upon a genetic model, one set of mating combinations is generated and a composite score is assigned to each mating combination. A particular mating combination is selected from the one set of mating combinations by using a biased random value. With the biased random value, a mating combination having a favorable composite score is advantageously selected. The selected mating combination constitute 1st and 2nd parents. A children chromosome is produced by mating the 1st and 2nd parents. Further, a child chromosome is produce by causing a copy of the 1st parent to mutate. Further, the mating, mutation, or both may be combined with the biased parent selection technique.



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